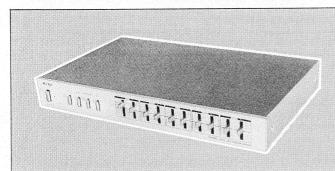
# TOSHIBA GRAPHIC EQUALISER EQ-500



#### **SPECIFICATIONS**

Power:

220V ~ 50 Hz for Europe

240V ~ 50 Hz for U.K. and

Australia

Power consumption:

8W

Weight:

2.7 kg

Dimensions:(D

420(W) x 57(H) x 266(D) mm

Channel: Frequency band: 2 ch.

5 bands

Gain:

0 dB (Control knob position:

"0")

Control range:

±12 dB 5V (Max.) - At flat

Maximum output:

80K ohm

Input impedance: Output impedance:

500 ohm

SN ratio:

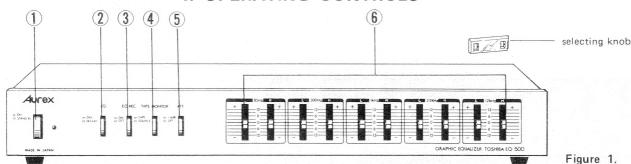
More than 75 dB

Harmonic distortion:

Less than 0.06% TE, TU, AY, TU-T

Specifications are subject to change without notice.

## 1. OPERATING CONTROLS



# **Front Panel Facilities**

## 1) Function switch:

Depress this switch to turn the power on. Depress once more to put the equipment into the stand-by mode.

#### 2 Equaliser switch [EQ]:

Depress this switch to <  $\square$ ON> to activate the graphic equaliser

∠□ DEFEAT> directs the input signal directly to the output terminal instead of through the equaliser circuit. In this position, the equaliser switch has no effect.

## 3 Equaliser recording switch [EQ REC]:

Depress this switch  $\langle \square \text{ ON} \rangle$  for recording through the equaliser circuit. Turn it  $\langle \square \text{ OFF} \rangle$  for recording without the use of equaliser circuit or to record through a noise reduction

## (4) Tape monitor switch [TAPE MONITOR]:

Depress the switch to < TAPE> for listening to tape reproduction or to monitor recording using a 3-head tape deck.

#### 5) Attenuator switch [ATT]:

The switch reduces the signal from the equaliser circuit by 6 dB When the level is too high with the equaliser knobs on each of the bands are up, set this switch to  $\langle \neg -6 \text{ dB} \rangle$ .

This switch will not work when the equaliser switch (2) is set to < I DEFEAT>.

## 6 Equaliser knob:

When equaliser switch (2) is activated to  $\langle \neg ON \rangle$ , the equaliser knobs cause the frequency response of each band to change continuously by ±12 dB. [L] denotes the left channel while [R], the right channel.

Connection of the selecting knob (accessory) to the frequency equaliser assures simultaneous operation of channel L and channel R knobs.

#### Note:

In the stand-by position < $\square>$ , the mains power will still be supplied to the equaliser. Therefore, when not in use unplug power cord from socket.

# Connections

Noise reduction system should be connected between graphic equaliser and tape deck. When recording through the noise reduction system (e.g. Aurex / TOSHIBA odres unit, etc.), set the equaliser recording switch (3) to  $\langle \Box$  OFF $\rangle$  so as to release the equaliser, thereby making the noise reduction system effective.

#### Check that the amplifier power switch is off before making any connections

- Insert all plugs firmly and securely. Loose connections can result in noise and other failures.
- Disconnect the mains plug from the supply socket when not in use.

# Operation

Operate the amplifier with tape monitor switch set to "TAPE".

#### 1. When operating through the equaliser circuit:

	Source	Equaliser switch	Equaliser recording switch	Tape monitor switch
Listening to	tape	ON	П OFF	 TAPE
	disc radio etc.	ON	П OFF	 SOURCE
Recording	disc radio etc,	ON	ON ON	I SOURCE
Monitoring	3 head tape deck	ON ON	Д ON	 TAPE

#### 2. When not operating through the equalizer circuit:

	Source	Equaliser switch	Equaliser recording switch	Tape monitor switch
Listening to	tape	DEFEAT	П OFF	TAPE
Listening to & recording	disc radio etc.	DEFEAT	OFF	SOURCE

#### Note:

When operating this equipment with a noise reduction system connected, keep the equaliser recording switch  $\ 3$  at  $\ \ \Box$  OFF $\ \ \$ , otherwise no benefit can be gained from the noise reduction.

# 2. DISASSEMBLY INSTRUCTIONS

## TOP COVER REMOVAL

- 1. Remove 10 Knobs C. See figure 2.
- 2. Remove 5 screws (A) and (B). See figure 2 and 3.
- 3. Separate the top cover from the set.

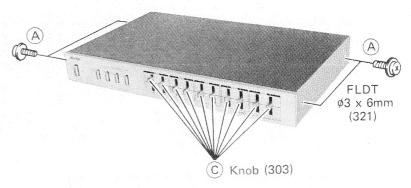


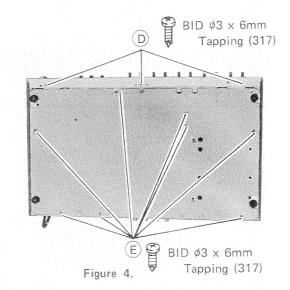
Figure 2.

B FTBID Ø3 × 6mm (BLK) (322)

Figure 3.

#### BOTTOM PLATE REMOVAL

- 1. Remove 8 screws (E). See figure 4.
- 2. Separate the bottom plate from the set.



## FRONT PANEL REMOVAL

- Remove 6 screws D after 10 Knobs removal. See figures 4 and 5.
- 2. Separate the front panel from the set.

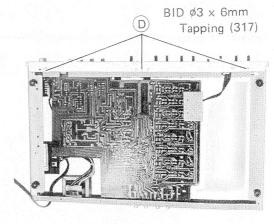
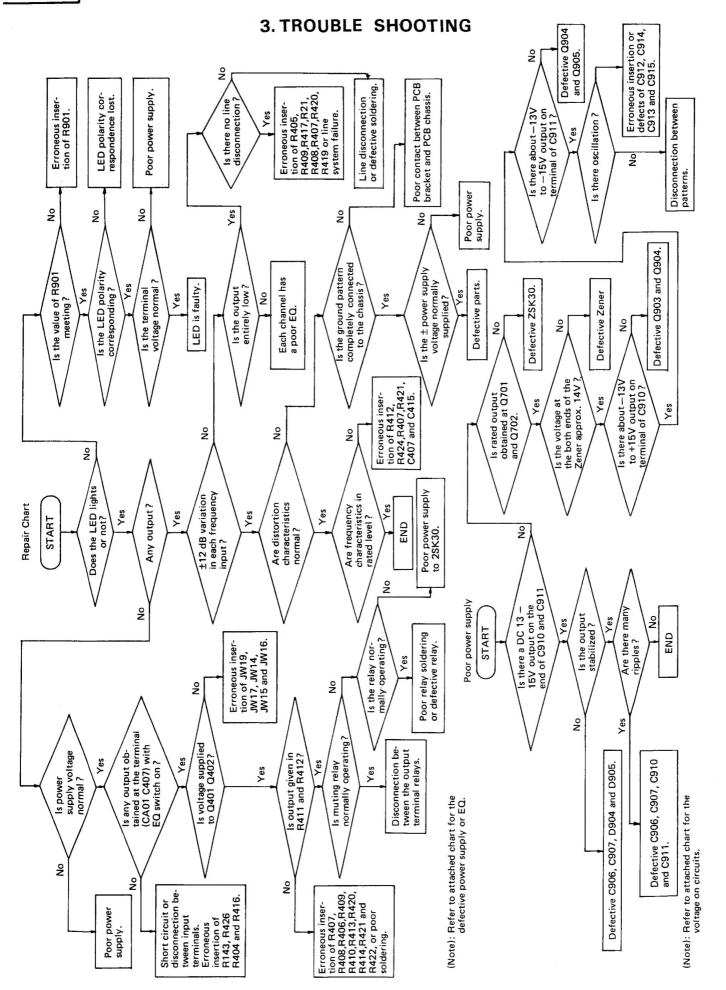
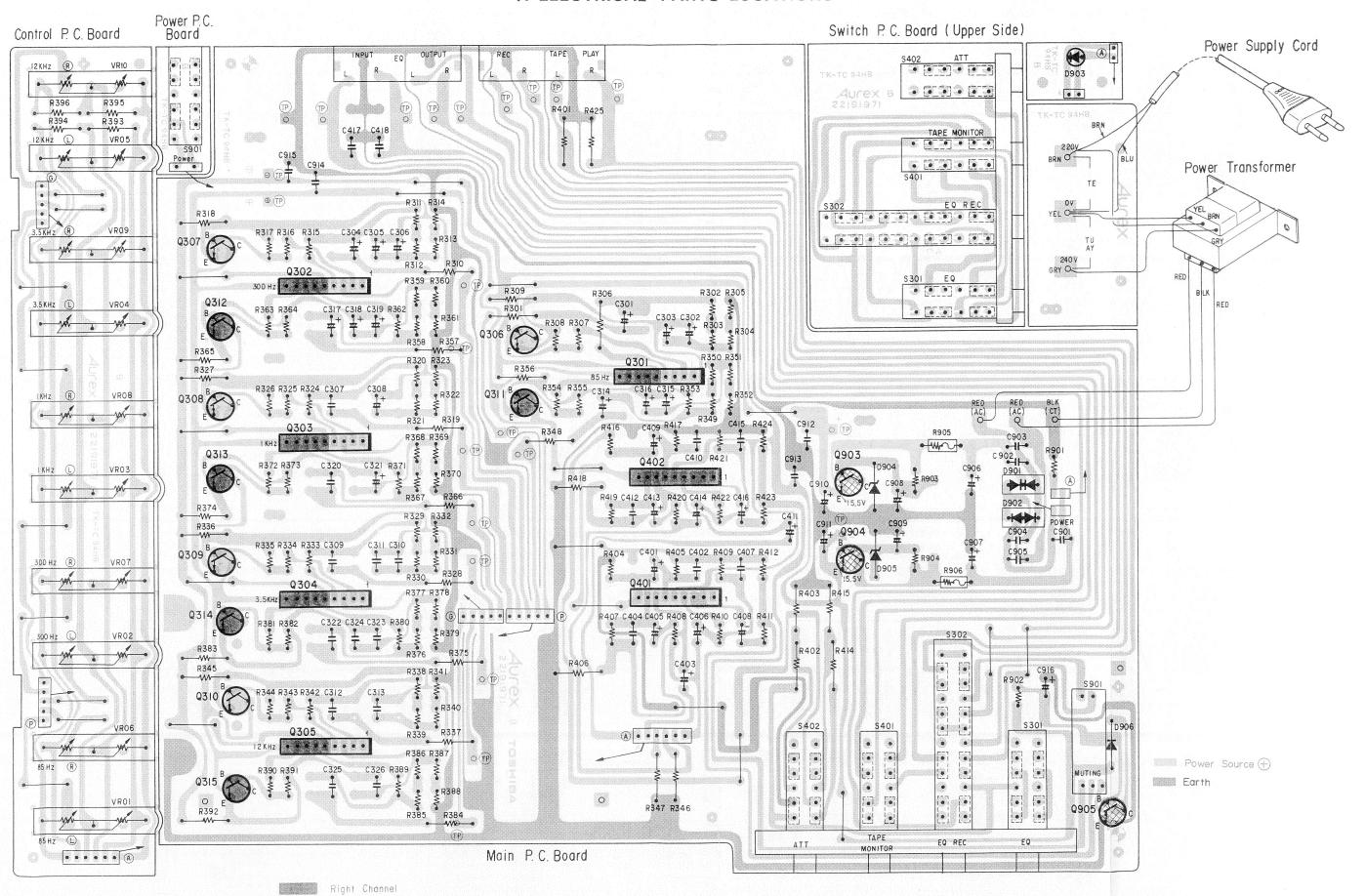


Figure 5.



## 4. ELECTRICAL PARTS LOCATIONS



Left Channel

---6 ---

# 5. SCHEMATIC DIAGRAM

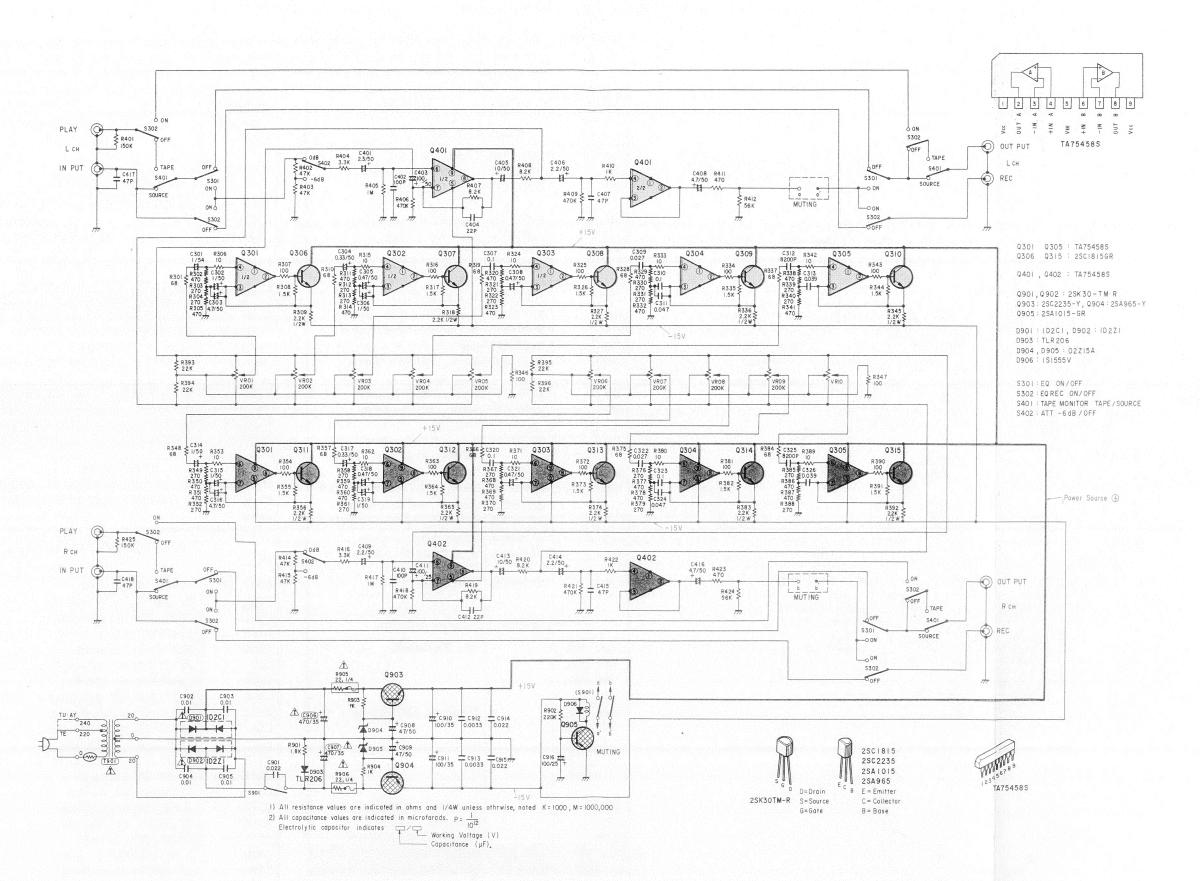
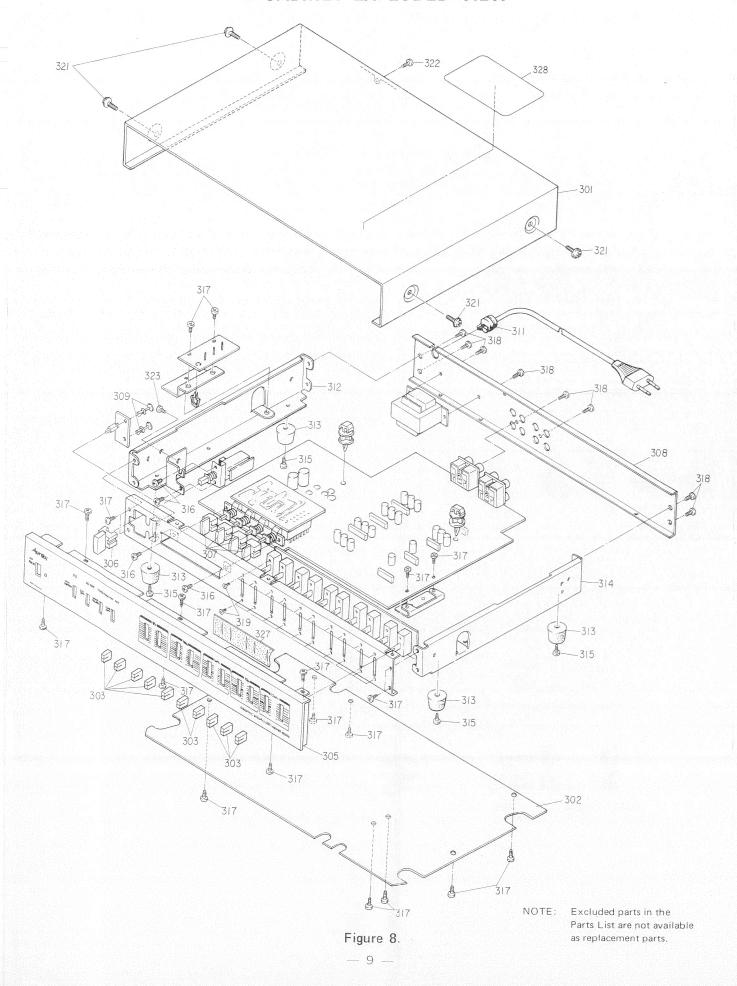


Figure 7.

# 6. CABINET EXPLODED VIEW



# 7. PARTS LIST

CAUTION: The A mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list

Symbol No.	Part No.	Description
	CABIN	ET PARTS
301	20015259	Cover, Top
303	22884128	Knob, Slide Resistor
305	20017177	Front Panel Ass'y
		TE, TU, AY
305	20017186	Front Panel Ass'y, TU-T
306	22824350	Knob Ass'y, Power
307	22884013	
308	20015254	Jack Plate, TE
308	20015256	
308	20015274	
309	22705020	
311	25845528	Nylon Bush, Cord Stopper
313	22828078	Leg
315	22701393	Screw, PAN Ø3 x 10mm, Tapping
316	22707452	Screw, BID Ø3 x 5mm
317	22707490	Screw, BID Ø3 x 6mm, Tapping
318	22701237	Screw, BID Ø3 x 6mm,
		Tapping, BLK
319	22707275	Screw, Special
320	22707456	Screw, FLDT Ø3 x 8mm, BLk
321	22707522	Screw, FLDT Ø3 x 6mm
322	22707066	Screw, FTBID Ø3 x 6mm, BL
323	22701457	Screw, BID Ø3 x 6mm
327	22750084	Sheet, Himelon, Variable
4		Resistor
328	22900143	Merit Label
TF	RANSISTOR	S, ICS & DIODES
Q301, 302, 303, 304, 305, 401, 402 Q306, 307, 308, 309, 310, 311, 312, 313, 314, 315		I.C., TA75458S  Transistor, 2SC1815-GR
Q903		Transistor, 2SC2235-Y
Ω904		Transistor, 2SA965-Y
Ω905		Transistor, 2SA1015-GR
D901		Diode, 1D2C1
D902		Diode, 1D2Z1
D903		Diode, (LED) TLR206

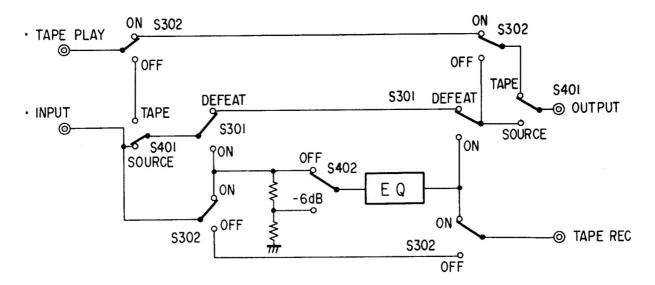
Symbol No.	Part No.	Description
D904, 905		Diode, Zener, 02Z15A
D906		Diode, 1S1555
	ELECTF	RICAL PARTS
S301	22195852	Switch, Push, EQ ON-OFF
S302-		EQ REC:ON-C
S401-		TAPE MONITOR:
		SOURCE, TAPE
S402 —		ATT 0 dB - 6 dB
S901	22195649	Switch, Push, Power
L901	22148647	Relay
T901	22223997	
J402, 404,	22163831	Jack, US4P, INPUT &
405, 407	22162024	OUTPUT
J401, 403, 406, 408	22163831	Jack, US4P, REC & PLAY
EP01	22176286	Power Supply Cord, TE
EP02	22176588	, , -
EP03	22176628	
FFUS		
R905, 906 D=±0.5pF, J= Work voltage noted.	22500176 CAP =±5%, K=±10 s of capacito	Fuse Resistor, 22 ohm 1/4W ACITORS 0%, M=±20%, Z=-20+80% r are DC50V unless otherwise
R905, 906 D=±0.5pF, J= Work voltage noted.	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera	Fuse Resistor, 22 ohm 1/4 W ACITORS 9%, M=±20%, Z=-20+80%
R905, 906 D=±0.5pF, J= Work voltage noted. Abbreviation	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My	Fuse Resistor, 22 ohm 1/4W ACITORS 1%, M=±20%, Z=-20+80% r are DC50V unless otherwise amic, EL = Electrolytic, lar, PP = Polypropylene,
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My	Fuse Resistor, 22 ohm 1/4W ACITORS 19%, M=±20%, Z=-20+80% r are DC50V unless otherwise amic, EL = Electrolytic, lar, PP = Polypropylene, EL, 1mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479	Fuse Resistor, 22 ohm 1/4 W ACITORS 19%, M=±20%, Z=-20+80% r are DC50V unless otherwise amic, EL = Electrolytic, lar, PP = Polypropylene, EL, 1mfd EL, 4.7mfd
R905, 906  D=±0.5pF, J= Work voltage noted. Abbreviation:  C301, 302 C303 C304	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488338	Fuse Resistor, 22 ohm 1/4 W ACITORS 1%, M=±20%, Z=-20+80% r are DC50V unless otherwise amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd
R905, 906  D=±0.5pF, J= Work voltage noted. Abbreviations  C301, 302  C303  C304  C305	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 2248838 22488478	Fuse Resistor, 22 ohm 1/4W  ACITORS  19%, M=±20%, Z=-20+80%  If are DC50V unless otherwise  18mic, EL = Electrolytic,  18mic, PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.33mfd  EL, 0.47mfd
R905, 906  D=±0.5pF, J= Work voltage noted. Abbreviations  C301, 302  C303  C304  C305  C306	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109	Fuse Resistor, 22 ohm 1/4W  ACITORS  1%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic,  lar, PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.33mfd  EL, 0.47mfd  EL, 1mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307	22500176  CAP =±5%, K=±10 s of capacito  S: CD = Cera MY = My  22488109 22488479 22488338 22488478 22488109 22371104	Fuse Resistor, 22 ohm 1/4W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109	Fuse Resistor, 22 ohm 1/4 W ACITORS 19%, M=±20%, Z=-20+80% r are DC50V unless otherwise amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J EL, 0.47mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488478 22488478 22488478 22488478 22488478 22371273	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.027mfd, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488478 22488478 22488478	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic,  lar, PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.33mfd  EL, 0.47mfd  EL, 1mfd  MY, 0.1mfd, J  EL, 0.47mfd  MY, 0.1mfd, J  MY, 0.027mfd, J  MY, 0.1mfd, J
R905, 906  D=±0.5pF, J= Work voltage noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109 22371104 22488478 22371104	Fuse Resistor, 22 ohm 1/4W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.1mfd, J MY, 0.047mfd, J MY, 0.1mfd, J MY, 0.1mfd, J MY, 0.047mfd, J MY, 0.047mfd, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488409 22371104 22488478 22371273 22371104 22371473	Fuse Resistor, 22 ohm 1/4W  ACITORS  1%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.027mfd, J MY, 0.1mfd, J MY, 0.1mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 8200pF, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109 22371104 22488478 22371273 22371104 22371473 22371822	Fuse Resistor, 22 ohm 1/4W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 1mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.1mfd, J MY, 0.047mfd, J MY, 0.1mfd, J MY, 0.1mfd, J MY, 0.047mfd, J MY, 0.047mfd, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309	22500176  CAP =±5%, K=±10 s of capacito  S: CD = Cera MY = My  22488109 22488479 22488338 22488478 22488109 22371104 22488478 22371273 22371104 22371473 22371822 22371393	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic,  Iar, PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.33mfd  EL, 0.47mfd  EL, 1mfd  MY, 0.1mfd, J  EL, 0.47mfd  MY, 0.027mfd, J  MY, 0.047mfd, J  MY, 0.039mfd, J  MY, 0.039mfd, J
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314, 315	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488478 22488478 22371104 22488478 22371273 22371104 22371473 22371822 22371393 22488109	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 0.47mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.027mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.039mfd, J EL, 1mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314, 315 C316	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488478 22488478 22488478 22371104 22471473 22371104 22371473 22371822 22371393 22488109 22488479	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  amic, EL = Electrolytic, lar, PP = Polypropylene,  EL, 1mfd EL, 4.7mfd EL, 0.33mfd EL, 0.47mfd EL, 0.47mfd MY, 0.1mfd, J EL, 0.47mfd MY, 0.027mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.047mfd, J MY, 0.09mfd, J EL, 1mfd EL, 1mfd EL, 1mfd EL, 1mfd EL, 4.7mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314, 315 C316 C317 C318	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109 22371104 22488478 22371273 22371104 22371473 22371822 22371393 22488109 22488479 2248838	Fuse Resistor, 22 ohm 1/4 W  ACITORS  19%, M=±20%, Z=-20+80%  r are DC50V unless otherwise  19mic, EL = Electrolytic,  1 lar, PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.47mfd  EL, 0.47mfd  EL, 1mfd  MY, 0.1mfd, J  EL, 0.47mfd  MY, 0.027mfd, J  MY, 0.047mfd, J  MY, 0.039mfd, J  EL, 1mfd  EL, 4.7mfd  EL, 4.7mfd  EL, 0.33mfd
R905, 906  D=±0.5pF, J= Work voltage: noted. Abbreviation:  C301, 302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314, 315 C316 C317	22500176  CAP =±5%, K=±10 s of capacito s: CD = Cera MY = My  22488109 22488479 22488478 22488109 22371104 22488478 22371273 22371104 22371473 22371822 22371393 22488109 22488479 2248838 22488478	Fuse Resistor, 22 ohm 1/4 W  ACITORS  196, M=±20%, Z=-20+80%  r are DC50V unless otherwise  186 amic, EL = Electrolytic,  187 PP = Polypropylene,  EL, 1mfd  EL, 4.7mfd  EL, 0.47mfd  EL, 0.47mfd  EL, 1mfd  MY, 0.1mfd, J  EL, 0.47mfd  MY, 0.027mfd, J  MY, 0.047mfd, J  MY, 0.047mfd, J  MY, 0.047mfd, J  MY, 0.039mfd, J  EL, 1mfd  EL, 4.7mfd  EL, 4.7mfd  EL, 4.7mfd  EL, 0.33mfd  EL, 0.33mfd  EL, 0.47mfd

Symbol No.	Part No.	Description
C323	22371104	MY, 0.1mfd, J
C324	22371473	MY, 0.047mfd, J
C325	22371822	
C326	22371393	
C401	22488229	
C402		CD, 100pF, K
C403		EL, 100mfd, 25V
C404	22362220	
C405	22488100	
C406	22488229	
C407	22362470	
C408	1	EL, 4.7mfd
C409		EL, 2.2mfd
C410		CD, 100pF, K
C411	22486101	
C412		CD, 22pF, K
C413		EL, 10mfd
C414		EL, 2.2mfd
C415		CD, 47pF, K
C416	22488479	EL, 4.7mfd
C417, 418	22362470	CD, 47pF, K
C901		MY, 0.022mfd, J
C902, 903		MY, 0.01mfd, J
C902, 903		MY, 0.01mfd, J
C904, 903		EL, 470mfd, 35V
		EL, 47mfd
C908, 909 C910, 911		EL, 100mfd, 35V
		MY, 0.0033mfd, J
C912, 913		MY, 0.0033md, 3
C914, 915	22486101	EL, 100mfd, 25V
C916	22400101	EE, 100ma, 25 v
	RES	SISTORS
Resistors are		film 1/4W, ±5% unless
otherwise no		
R301	22545680	68 ohm
R302	22555471	
R303, 304	22555271	i i
R305	22555471	l i
R306	22545100	
R307	22555101	
R308	22555152	
R309	22563222	2.2K ohm, 1/2W, Composition
R310	22545680	
R311	22555471	470 ohm
R312, 313	22555271	
R314	22555471	470 ohm
R315	22555100	10 ohm
R316	22555101	
R317	22555152	
R318	22563222	
R319	22545680	
R320	22555471	

Symbol No.	Part No.	Description
R321, 322	22555271	270 ohm
R321, 322	22535271	470 ohm
R324		10 ohm
	22555100	100 ohm
R325	22555101	
R326		2.2K ohm
R327		68 ohm
R328	22555471	470 ohm
R329 R330, 331	22555471	270 ohm
	22555271	470 ohm
R332 R333	22555100	10 ohm
R334		100 ohm
R335		1.5K ohm
R336	22545222	2.2K ohm
R337		68 ohm
R338		470 ohm
R339		270 ohm
R340	22555271	270 ohm
R341		470 ohm
R342	22555100	
R343	22555100	
R344	22555161	
R345	22545222	
R346, 347	22545222	100 ohm
R348	22545101	68 ohm
R349	22545080	270 ohm
R350, 351	22555271	
R352	22555271	270 ohm
R353	22555100	10 ohm
R354	22555101	100 ohm
R355	22555152	
R356	22545222	
R357	22545680	
R358	22555271	
R359, 360	22555271	470 ohm
R361	22555271	270 ohm
R362	22555100	
R363	22555101	100 ohm
R364	22555152	
R365	22545222	
R366	22545680	
R367	22555271	270 ohm
R368, 369	22555471	
R370	22555271	
R371	22555100	
R372	22555100	
R372	22555101	
R373	22555151	
R374	22545222	
R375	22545680	
R376	22555271	
R377, 378	22555471	
R379	22555271	
1	2200271	2.00

Symbol No.	Part No.	Description		
R380	22555100	10 ohm		
R381	22555101	100 ohm		
R382	22555152	1.5K ohm		
R383	22545222	2.2K ohm		
R384	22545680	68 ohm		
R385	22555271	270 ohm		
R386, 387	22555471	470 ohm		
R388	22555271	270 ohm		
R389	22555100	10 ohm		
R390	22555101	100 ohm		
R391	22555152	1.5K ohm		
R392	22545222	2.2K ohm		
R393, 394	22545223	22K ohm		
R395, 396	22545223	22K ohm		
R401	22545154	150K ohm		
R402, 403	22545473	47K ohm		
R404	22555332	3.3K ohm		
R405	22555105	1M ohm		
R406	22545474	470K ohm		
R407, 408	22555822	8.2K ohm		
R409	22555474	470K ohm		
R410	22555102	1K ohm		
R411	22555471	470 ohm		
R412	22555563	56K ohm		
R414, 415	22545473	47K ohm		
R416	22555332	3.3K ohm		
R417	22555105	1M ohm		
R418	22545474	470K ohm		
R419, 420	22555822	8.2K ohm		
R421	22555474	470K ohm		
R422	22555102	1K ohm		
R423	22555471	470 ohm		
R424	22555563	56K ohm		
R425	22545154	150K ohm		
R901	22555182	1.8K ohm		
R902	22555224	220K ohm		
VR01 to 10	22657223	Variable, 200K ohm		
R903, 904	22555102	1K ohm		
ACCESSORIES				
AC01	22164775	Joint Cord		
AC02	22903050	Owner's Manual, TU, AY,		
		TU-T		
AC03	22903048	Owner's Manual, TE		
AC04	22884129			

# 8. BLOCK DIAGRAM



S301: EQ : ON/DEFEAT

S302: EQ REC : ON/OFF

S401: TAPE MONI: TAPE/SOURCE

S402: ATT: -6dB/OFF

Figure 9.